

241. An isolated nucleic acid molecule comprising a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:

(a) a nucleotide sequence encoding a Hu-Asp polypeptide selected from the group consisting of Hu-Asp1, Hu-Asp2(a), and Hu-Asp2(b), wherein said Hu-Asp1, Hu-Asp2(a) and Hu-Asp2(b) polypeptides have the complete amino acid sequence of SEQ ID NO:2, SEQ ID NO:4, and SEQ ID No:6, respectively; and

(b) a nucleotide sequence complementary to the nucleotide sequence of (a).

242. The nucleic acid molecule of claim 241, wherein said Hu-Asp polypeptide is Hu-Asp1.

243. The nucleic acid molecule of claim 241, wherein said Hu-Asp polypeptide is Hu-Asp2(a).

244. The nucleic acid molecule of claim 241, wherein said Hu-Asp polypeptide is Hu-Asp2(b).

245. An isolated nucleic acid molecule comprising polynucleotide which hybridizes under stringent conditions to a polynucleotide comprising a nucleotide sequence selected from:

(a) a nucleotide sequence encoding a Hu-Asp polypeptide selected from the group consisting of Hu-Asp1, Hu-Asp2(a), and Hu-Asp2(b), wherein said Hu-Asp1, Hu-Asp2(a) and Hu-Asp2(b) polypeptides have the complete amino acid sequence of SEQ ID NO:2, SEQ ID NO:4, and SEQ ID No:6, respectively; and

(b) a nucleotide sequence complementary to the nucleotide sequence of (a).

246. A vector comprising the nucleic acid molecule of claim 241.

247. The vector of claim 246, wherein said nucleic acid molecule is operably linked to a promoter for the expression of a Hu-Asp polypeptide.

248. A host cell comprising the vector of claim 247.

249. A method of obtaining a Hu-Asp polypeptide comprising culturing the host cell of claim 248 and isolating said Hu-Asp polypeptide.

250. An isolated Hu-Asp1 polypeptide comprising an amino acid sequence at least 95% identical to a sequence comprising the amino acid sequence of SEQ ID NO:2.

251. An isolated Hu-Asp2(a) polypeptide comprising an amino acid sequence at least 95% identical to a sequence comprising the amino acid sequence of SEQ ID NO:4.

252. An isolated Hu-Asp2(a) polypeptide comprising an amino acid sequence at least 95% identical to a sequence comprising the amino acid sequence of SEQ ID NO:8.

253. An isolated antibody that binds specifically to the Hu-Asp polypeptide of any of claims 250-252.

254. A cell according to claim 248 that is a bacterial cell.

255. A bacterial cell of claim 254 where the bacteria is *E. coli*.

256. A cell according to claim 248 that is a eukaryotic cell.

257. A cell according to any one of claims 248 that is an insect cell.

258. An insect cell of claim 257 where the insect is sf9, or High 5.

259. An insect cell of claim 257 where the insect cell is High 5.

260. A cell according to claim 248 that is a mammalian cell.

261. A mammalian cell of claim 260 selected from the group consisting of human, rodent, lagomorph, and primate cells.

262. A mammalian cell of claim 261 that is a human cell.

263. A mammalian cell of claim 262 selected from the group consisting of HEK293 and IMR-32 cells.

264. A mammalian cell of claim 261 that is a primate cell.

265. A primate cell of claim 264 that is a COS-7 cell.

266. A mammalian cell of claim 261 that is a rodent cell.

267. A rodent cell of claim 266 selected from, CHO-K1, Neuro-2A, 3T3 cells.

268. A cell according to claim 248 that is a yeast cell.

269. A cell according to claim 248 that is an avian cell.

270. Any isoform of Amyloid Precursor Protein (APP) modified such that the last two carboxy terminus amino acids of that isoform are both lysine residues.

271. The isoform of APP from claim 270 comprising the isoform known as APP695 modified so that its last two carboxy terminus amino acids are lysines.